VOLUME 35 · CONTENTS

No 1 FEBRUARY 2001

Page

Editorials

1 Warm up

1 A journey of a thousand miles begins with a single step *Paul McCrory*

Leaders

3 Leptin and exercise: new directions *J L Durstine, R W Thompson, K L Drowatzky, W P Bartoli*

4 A biomechanical perspective: do foot orthoses work? *B Heiderscheit, J Hamill, D Tiberio*

5 Sports medicine in the Netherlands *G C van Enst*

6 *Toxocara*: dogwalking and playing fields *S Gillespie*

Review

8 Balancing the risk of injury to gymnasts: how effective are the counter measures? *R M Daly, S L Bass, C F Finch*

Original articles

20 Evidence based prevention of acute injuries during physical exercise in a WHO safe community *T Timpka, K Lindqvist*

28 Incidence of pubic bone marrow oedema in Australian rules football players: relation to groin pain *G M Verrall, J P Slavotinek, G T Fon*

34 A unique insight into the incidence of rugby injuries using referee replacement reports *J C M Sharp, G D Murray, D A D Macleod*

38 Influence of rugby injuries on players' subsequent health and lifestyle: beginning a long term follow up *A J Lee, W M Garraway, W Hepburn, R Laidlaw*

43 The association football medical research programme: an audit of injuries in professional football *R D Hawkins, M A Hulse, C Wilkinson, A Hodson, M Gibson*

48 Methods of appointment and qualifications of club doctors and physiotherapists in English professional football: some problems and issues *I Waddington, M Roderick, R Naik*

Commentary—*M Cullen*

54 Changes in hip and ankle range of motion and hip muscle strength in 8–11 year old novice female ballet dancers and controls: a 12 month follow up study *K L Bennell, K M Khan, B L Matthews, C Singleton*

60 A randomised clinical trial of the efficacy of drop squats or leg extension/leg curl exercises to treat clinically diagnosed jumper's knee in athletes: pilot study *L J Cannell, J E Taunton, D B Clement, C Smith, K M Khan*

65 Reproducibility and clinical utility of tendon palpation to detect patellar tendinopathy in young basketball players *J L Cook, K M Khan, Z S Kiss, C R Purdam, L Griffiths, for the Victorian Institute of Sport tendon study group*

Case reports

70 Cyclist's iliac syndrome: temporary relief by balloon angioplasty *L D Wijesinghe, P A Coughlin, I Robertson, D Kessel, P J Kent, R C Kester*

Commentary—*C Jarvis*

72 Olecranon stress fracture in a weight lifter: a case report *P S Rao, S K Rao, B C Navadgi*

Education and debate

74 Delayed union stress fractures of the anterior tibia: conservative management *M E Batt, S Kemp, R Kerslake*

Letter to the editor

78 Sports medicine education *David Garlick*

Book review

78 Homoeopathy for sports, exercise and dance

78 **Calendar of events**

27 **BASEM/NSMI education programme**

No 2 APRIL 2001

Page **Editorials**
79 Warm up
79 Evidence-based sports medicine *Paul McCrory*

Leaders
81 Do mouthguards prevent concussion? *Paul McCrory*
83 Diabetes and extreme altitude mountaineering *K Moore, C Thompson, R Hayes*

Original articles
84 Dental evaluation of scuba diving mouthpieces using a subject assessment index and radiological analysis of jaw position *R S Hobson, J P Newton*
89 What do under 15 year old schoolboy rugby union players think about protective headgear? *C F Finch, A S McIntosh, P McCrory*
95 Echocardiographic characteristics of male athletes of different age *G Pavlik, Z Olexó, P Osváth, Z Sidó, R Frenkl*
100 Contact dermatitis in students practicing sports: incidence of rubber sensitisation *M T Ventura, M Dagnello, M G Matino, R Di Corato, G Giuliano, A Tursi*
103 Ankle injuries in basketball: injury rate and risk factors *G D McKay, P A Goldie, W R Payne, B W Oakes*
109 Is glucose/amino acid supplementation after exercise an aid to strength training? *A G Williams, M van den Oord, A Sharma, D A Jones*
114 Benefits from aerobic exercise in patients with major depression: a pilot study *F Dimeo, M Bauer, I Varahram, G Proest, U Halter*
118 Short term power output in relation to growth and maturation *N Armstrong, J R Welsman, M Y H Chia*
125 Warm up practices of golfers: are they adequate? *A J Fradkin, C F Finch, C A Sherman*
128 Sports doctors' resuscitation skills under examination: do they take it seriously? *M Lavis, J Rose, T Jenkinson*
131 Sural nerve injury associated with neglected tendo Achilles ruptures *M D A Fletcher, P J Warren*
133 Avulsion fracture of the extensor carpi radialis longus in a rugby player: a case report *D Jena, K A Giannikas, R Din*
136 Embolisation of a traumatic aneurysm of the posterior circumflex humeral artery in a volleyball player *M Vlychou, G Spanomichos, A Chatziioannou, M Georganas, G M Zavras*

Letters to the editor
138 The ups and downs of high altitude mountaineering *D M Bailey*
138 Professionalism and injuries in rugby union *J R Silver*
138 Effectiveness of stretching to reduce injury *P E Schur*

Book reviews
138 Introduction to clinical neurology • Tendinitis: its etiology and treatment • Chronic ankle pain in the athlete

Notes and news
139 Institute of Sports Medicine masters course • Annual awards ceremony • Annual symposium • BASEM Congress 2001 • Call for abstracts • Aircast travelling fellowship 2001

140 **Correction**

No 3 JUNE 2001

Page **Editorials**
141 Warm up
141 No pain, no gain. The dilemma of a team physician
142 Ethics, molecular biology, and sports medicine
143 The passing of "The Don" *P McCrory*

Leaders
144 Physical activity to prevent falls in older people: time to intervene in high risk groups using falls as an outcome *K M Khan, T Liu-Ambrose, M G Donaldson, H A Mckay*
146 The nature of concussion: a speculative hypothesis *Paul McCrory*

Review
148 Tai chi: physiological characteristics and beneficial effects on health *J X Li, Y Hong, K M Chan*

Original articles
157 The New Zealand rugby injury and performance project. VI. A prospective cohort study of risk factors for injury in rugby union football *K L Quarrie, J C Alsop, A E Waller, Y N Bird, S W Marshall, D J Chalmers*
167 Effectiveness of headgear in a pilot study of under 15 rugby union football *A S McIntosh, P McCrory*
170 The acute phase response and exercise: court and field sports *K E Fallon, S K Fallon, T Boston*
174 Effect of immersion, submersion, and scuba diving on heart rate variability *J D Schipke, M Pelzer*
181 Indoor rock climbing: who gets injured? *D M Wright, T J Royle, T Marshall*
186 Effects of three different training modalities on the cross sectional area of the lumbar multifidus muscle in patients with chronic low back pain *L A Danneels, G G Vanderstraeten, D C Cambier, E E Witvrouw, J Bourgois, W Dankaerts, H J De Cuyper*
192 Dependence of the maximal lactate steady state on the motor pattern of exercise *R Beneke, R M Leithäuser, M Hütler*

Short reports
197 Mountain biking injuries in rural England *L M Jeys, G Cribb, A D Toms, S M Hay*
200 Nirschl tennis elbow release with or without drilling *A Khashaba*

Case report
202 Pectoralis major tears: comparison of surgical and conservative treatment *C M Hanna, A B Glenny, S N Stanley, M A Caughey*

Letters to the editor
207 Club doctors and physiotherapists *Claire Hay*
207 Club doctors and physiotherapists *Rob Mackay, Ivan Waddington, Martin Roderick*
208 Sailing and swimming *Matt Wyon*

208 **Calendar of events**

No 4 AUGUST 2001

Page

Editorials

209 Warm up

209 The "piriformis syndrome"—myth or reality? *Paul McCrory*

210 Getting the *British Journal of Sports Medicine* to developing countries *P McCrory*

Leader

212 The use of local anaesthetic injections in professional football *J Orchard*

Reviews

214 Exercise and outdoor ambient air pollution *A J Carlisle, N C C Sharp*

223 Sepsis and mechanisms of inflammatory response: is exercise a good model? *R J Shephard*

Original articles

231 Aerobic and anaerobic power responses to the practice of taekwon-do *A F Melhim*

235 Injuries in whitewater kayaking *D C Fiore, J D Houston*

242 Are synchronised swimmers at risk of amenorrhoea? *R Ramsay, R Wolman*

245 An analysis of consultations with the crowd doctors at Glasgow Celtic football club, season 1999–2000 *M Crawford, J Donnelly, J Gordon, R MacCallum, I MacDonald, M McNeill, N Mulhearn, S Tilston, G West*

251 A profile of patients attending sports medicine clinics *C F Finch, M A R Kemihan*

257 Transient forces generated by projectiles on variable quality mouthguards monitored by instrumented impact testing *L Warnet, A Greasley*

263 The reliability and validity of the physical activity questions in the WHO health behaviour in schoolchildren (HBSC) survey: a population study *M L Booth, A D Okely, T Chey, A Bauman*

268 Physical activity in Dublin children aged 7–9 years *J Hussey, J Gormley, C Bell*

274 Quantitative heel ultrasound variables in powerlifters and controls *S Jawed, B Horton, T Masud*

276 The kick with the stick *A Exadaktylos, S Eggli, H Zimmermann*

Occasional piece

278 Sir Percivall Pott—the first sports neurologist? *P R McCrory*

Letters to the editor

281 The football club doctor system *S Boyce, I Waddington, M Roderick*

281 Sports medicine clinics on the NHS: a patient survey *S H Boyce, M A Quigley*

281 New Zealand Olympic experience—Sydney 2000 *C Milne*

282 Reassessing the need for sport diving medicals *P Smith, S Glen, J Douglas*

282 Management of diabetes at high altitude *J Admetlla, C Leal, A Ricart*

283 Sports doctors' resuscitation skills under examination—additional facts *M B Bottomley*

283 The future for the field of sports medicine *C Martin*

283 Height of Kilimanjaro *N C C Sharp*

Book review

284 Physical therapist's clinical companion

284 **Calendar of events**

284 **Notes and news**

No 5 OCTOBER 2001

Page

Editorials

285 Warm up

285 What's in a name? *P McCrory*

286 Headache in sport *P McCrory*

Leaders

288 The medicolegal aspects of automatism in mild head injury *P McCrory*

290 Performance in motor sports *A J Klarica*

291 What is the most appropriate treatment for patellar tendinopathy? *J L Cook, K M Khan*

294 The last "oxygenless" ascent of Mt Everest *D M Bailey*

Review

297 Computerised cognitive assessment of athletes with sports related head injury *A Collie, D Darby, P Maruff*
Commentary—*P McCrory*

Original articles

303 Effects of an endurance cycling competition on resting serum insulin-like growth factor I (IGF-I) and its binding proteins IGFBP-1 and IGFBP-3 *J L Chicharro, A López-Calderon, J Hoyos, A I Martín-Velasco, G Villa, M A Villanúa, A Lucia*

308 Injury and injury rates in Muay Thai kick boxing *S Gartland, M H A Malik, M E Lovell*

314 Symptoms of musculoskeletal disorders in stage rally drivers and co-drivers *N J Mansfield, J M Marshall*

321 Organisation of safety measures in an Alpine World Junior Championship *K A Bergstrøm, A Bergstrøm, A Ekeland*

325 Skateboarding injuries of today *L Forsman, A Eriksson*
Commentary—*L Svanstrom*

329 The relative stress on the Achilles tendon during ambulation in an ankle immobiliser: implications for rehabilitation after Achilles tendon repair *K H Akizuki, E J Gartman, B Nisonson, S Ben-Avi, M P McHugh*
Commentary—*P Kannus*

335 The VISA-A questionnaire: a valid and reliable index of the clinical severity of Achilles tendinopathy *J M Robinson, J L Cook, C Purdam, P J Visentini, J Ross, N Maffulli, J E Taunton, K M Khan Victorian Institute of Sport Tendon Study Group*

342 Phenylethylamine, a possible link to the antidepressant effects of exercise? *A Szabo, E Billett, J Turner*

Methodology

344 Provocation by eucapnic voluntary hyperpnoea to identify exercise induced bronchoconstriction *S D Anderson, G J Argyros, H Magnussen, K Holzer*

Short reports

348 Results of a 10 week community based strength and balance training programme to reduce fall risk factors: a randomised controlled trial in 65–75 year old women with osteoporosis *N D Carter, K M Khan, M A Petit, A Heinonen, C Waterman, M G Donaldson, P A Janssen, A Mallinson, L Riddell, K Kruse, J C Prior, L Flicker, H A McKay*

352 Hypothermia during sports swimming in water below 11°C *W R Keatinge, M Khartchenko, N Lando, V Lioutov*

Case reports

354 Computerised cognitive assessment of concussed Australian Rules footballers *M Makdissi, A Collie, P Maruff, D G Darby, A Bush, P McCrory, K Bennell*

361 Rupture of the axillary (circumflex) nerve and artery in a champion jockey *J Patel, M Turner, R Birch, P McCrory*
Commentary—*G A Davis*

Letters to the editor

364 Sports medicine training in the United States *W W Curl, I E Bomberger*

364 Flexibility versus stretching *I Shrier, P E Schur*

364 Fitness leader effectiveness *R Lyon*

Book review

365 Clinical review of sports medicine. 2nd ed

Video review

365 First aid in motor sport (video)

366 **Calendar of events**

366 **Notes and news**

367 **International Symposium on Concussion in Sport**

No 6 DECEMBER 2001

Page

Editorials

379 Warm up

379 Raiders of the lost dream

380 When to retire after concussion? *Paul McCrory*

Review

383 A systematic review of interventions to prevent lower limb soft tissue running injuries *E W Yeung, S S Yeung*

Original articles

390 Effects of rapid weight loss on mood and performance among amateur boxers *C J Hall, A M Lane*

396 Physiological and metabolic characteristics of elite tug of war athletes *G Warrington, C Ryan, F Murray, P Duffy, J P Kirwan*

402 Propensity for osteoarthritis and lower limb joint pain in retired professional soccer players *S Drawer, C W Fuller*

Commentary—*I Waddington*

409 Distal radial fractures in young goalkeepers: a case for an appropriately sized soccer ball *K T Boyd, P Brownson, J B Hunter*

412 Influence of preseason training, fitness, and existing injury on subsequent rugby injury *A J Lee, W M Garraway, D W Arneil*

418 Evidence for the aetiology of injuries in Australian football *K Norton, S Schwerdt, K Lange*

Commentary—*H Seward*

424 Hormone levels of world class cyclists during the Tour of Spain stage race *A Lucía, B Díaz, J Hoyos, C Fernández, G Villa, F Bandrés, J L Chicharro*

431 A reduction in training volume and intensity for 21 days does not impair performance in cyclists *G J W M Rietjens, H A Keizer, H Kuipers, W H M Saris*

Commentary—*A C Snyder*

435 Clinical risk factors for hamstring muscle strain injury: a prospective study with correlation of injury by magnetic resonance imaging *G M Verrall, J P Slavotinek, P G Barnes, G T Fon, A J Spriggins*

Commentary—*T Best*

441 Non-invasive quantitative assessment of oxidative metabolism in quadriceps muscles by near infrared spectroscopy *H Ding, G Wang, W Lei, R Wang, L Huang, Q Xia, J Wu*

445 Validation of Ottawa ankle rules protocol in Greek athletes: study in the emergency departments of a district general hospital and a sports injuries clinic *E Papacostas, N Malliaropoulos, A Papadopoulos, C Lioulíakis*

Commentary—*S Bell*

Case report

448 Stress fracture of the clavicle in a young female gymnast *K E Fallon, P A Fricker*

Letters to the editor

450 Impact of professionalism on injuries in rugby union *K L Quarrie, D J Chalmers*

450 Proportions of activities in a climbing gym *D Humphries, D Wright, J Royle, T Marshall*

451 Sports doctors' resuscitation skills *P Schur*

Book reviews

451 Marathon medicine

451 High altitude medicine and physiology. 3rd ed

451 Sports medicine for specific ages and abilities

452 Clinical risk management: enhancing patient safety. 2nd ed

452 **Calendar of events**

453 **Notes and news**

454 **Author index**

457 **Subject index**

Contents